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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/088,651	06/20/2002		Jerome Michel Jacques Bibette	0512-1023	2772
466	7590	10/11/2005		EXAMINER	
YOUNG &	THOM	PSON	METZMAIER, DANIEL S		
745 SOUTH	23RD ST	REET			
2ND FLOOI	R		ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22202				1712	
				DATE MAILED: 10/11/2009	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
		10/088,651	BIBETTE ET AL.					
Office Action Su	mmary	Examiner	Art Unit					
		Daniel S. Metzmaier	1712	<u> </u>				
The MAILING DATE of a Period for Reply	his communication app	ears on the cover sheet	with the correspondence as	ddress				
A SHORTENED STATUTOR' WHICHEVER IS LONGER, FI - Extensions of time may be available unafter SIX (6) MONTHS from the mailing - If NO period for reply is specified above - Failure to reply within the set or extende Any reply received by the Office later the earned patent term adjustment. See 37	ROM THE MAILING DA der the provisions of 37 CFR 1.13 date of this communication. , the maximum statutory period very dependent for reply will, by statute an three months after the mailing	ATE OF THIS COMMU 36(a). In no event, however, may will apply and will expire SIX (6) No. cause the application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of this of a BANDONED (35 U.S.C. § 133).					
Status								
1) Responsive to commun	ication(s) filed on 19 &	27 2005						
2a) ☐ This action is FINAL .		action is non-final.						
<i>/</i> —	· —	•	atters, prosecution as to th	e merits is				
·— ···	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>18-37</u> is/are pe	ending in the application	٦.	·					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are a								
6)⊠ Claim(s) <u>18-20,23 and 2</u>	☑ Claim(s) <u>18-20,23 and 26-37</u> is/are rejected.							
7) Claim(s) 21,22,24 and 2	25 is/are objected to.	•						
8) Claim(s) are sub	ect to restriction and/o	r election requirement.						
Application Papers								
9) The specification is obje	cted to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request	that any objection to the	drawing(s) be held in abe	yance. See 37 CFR 1.85(a).					
Replacement drawing she	et(s) including the correct	ion is required if the draw	ing(s) is objected to. See 37 C	FR 1.121(d).				
11) ☐ The oath or declaration i	s objected to by the Ex	aminer. Note the attacl	ned Office Action or form P	TO-152.				
Priority under 35 U.S.C. § 119								
12) Acknowledgment is mad a) All b) Some * c) [-	priority under 35 U.S.C	C. § 119(a)-(d) or (f).					
 Certified copies of 	1. Certified copies of the priority documents have been received.							
	•	•	n Application No					
3. ☐ Copies of the cer	ified copies of the prior	rity documents have be	en received in this Nationa	l Stage				
,	he International Bureau							
* See the attached detailed	Office action for a list	of the certified copies r	not received.					
			•					
Attachment(s)		•						
1) Notice of References Cited (PTO-8	92)		w Summary (PTO-413)	•				
2) Notice of Draftsperson's Patent Dra			No(s)/Mail Date of Informal Patent Application (PT	·O.452\				
 Information Disclosure Statement(s Paper No(s)/Mail Date) (P10-1449 or PTO/SB/08)	6) Other:		U-102j				

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

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DETAILED ACTION

Claims 18-37 are pending.

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn. The rejection under 35 USC 112, second paragraph has been withdrawn in view of applicants arguments at pages 3 to 5 of the response filed September 27, 2005.

Attention may be further directed to claims of Bibette et al, US 6,627,603.

Allowable Subject Matter

2. The indicated allowability of claims 18-37 is withdrawn in view reconsideration of the combined prior art reference(s) to WO 99/07463, which is a family member of Bibette et al, US 6,627,603, and WO 97/38787, which is a family member of Bibette et al, US 5,938,581 (all of record). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 18-20, 23, and 26-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Centre National De La Recherche Scientifique, WO 99/07463 (hereafter WO 99/07463), as evidenced by family member of Bibette et al, US 6,627,603, in view of Bibette et al, US 5,938,581 (all of record).

Bibette et al, US 6,627,603, is employed as an English language translation of the WO 97/38787 reference. The disclosures are deemed to be the same or substantially the same as based on the PCT application.

Bibette et al, US 5,938,581, is employed as an English language translation of the WO 97/38787 reference. The disclosures are deemed to be the same or substantially the same as based on the PCT application. The US patents are referred to for citations hereafter.

WO 99/07463 and Bibette et al '603 (abstract; column 4, lines 52 et seq and 67 et seq; column 5, lines 8-9, 20, and 31-35; and claims) disclose releasing an active principle from multiple emulsions. WO 99/07463 and Bibette et al '603 (column 4, lines 67 et seq; particularly column 5, lines 8-9, 20, and 31-35; and claims) disclose the use of alkylene oxide copolymers as water-soluble hydrophilic agents among other surfactants, polyglycerol polyricinoleate as a fat-soluble surfactant and disclose

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hydrophilic active agents from the same fields of endeavor as applicants instantly claimed hydrophilic active agents.

The claim 23 alkylene oxide copolymers are known water soluble hydrophilic alkylene oxide copolymers (Sold under the trademark Pluronic®).

The monodispersed emulsions disclosed and exemplified read on applicants polydispersity of 30% or less, which applicants identify as monodispersed. An ideal monodispersed system would have a polydispersity approaching zero.

WO 99/07463 and Bibette et al '603 (Example 2) discloses the formation of monodispersed double emulsions in a two stage process, wherein a polydispersed W/O emulsion is converted to a monodispersed emulsion under controlled gentle shearing followed by incorporation into an outer aqueous phase. The polydispersed double emulsion would have existed prior to the microfluidizer treatment (column 7, line 31 et seq).

WO 99/07463 and Bibette et al '603 (column 4, lines 52-63) disclose the release of the active principle from the internal phase (A2) may be induced by a compound already in the external environment. WO 99/07463 and Bibette et al '603 further (column 4, lines 59-62) state: "this agent can in particular be . . . or alternatively a hydrocolloid, such as xanthan gum, guar, or carrageenan, and their derivatives." Said hydrocolloids are polysaccharides.

Since the WO 99/07463 and Bibette et al '603 references disclosure of "This agent" appears to be referring to the "alternatively a compound" set forth in the preceding paragraph, the xanthan gum, guar, or carrageenan, and their derivative

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would have been present in "the external environment" that includes the outer phase

A2. The reference does not distinguish between the "the external environment" and the

A2 phase.

To the extent the WO 99/07463 and Bibette et al '603 references differ from the claims in the concentrations of the hydrocolloids, said concentrations would have been obvious inview of the hydrocolloids are known thickening agents and emulsions having sufficiently high concentrations would become solids and/or gels. Concentrations higher than 10 % by weight would not have been expected already in the external environment based on their thickening properties.

Bibette et al '581 discloses making emulsions from polydispersed emulsions to form a monodispersed emulsion employing controlled shearing. Bibette et al '581 (column 4, lines 17 et seq) disclose the formation of viscoelastic compositions by the further addition of a thickener, such as dextran, where the surfactant does not provide the appropriate viscoelastic effect.

These references are combinable because they teach monodispersed emulsions and methods of making. It would have been obvious to one of ordinary skilled in the art at the time of applicants' invention to employ the methods of Bibette et al '581 in making the emulsions of WO 99/07463 and Bibette et al '603 to form the monodispersed emulsions tauight therein as an obvious conventional shearing methods of converting a polydispersed system to a monodispersed system.

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Allowable Subject Matter

6. Claims 21-22 and 24-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 18-37 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel S. Metzmaier Primary Examiner Art Unit 1712

DSM